

Boss Audio System

SERVICE MANUAL

MODEL NO. 14.1 FLIP

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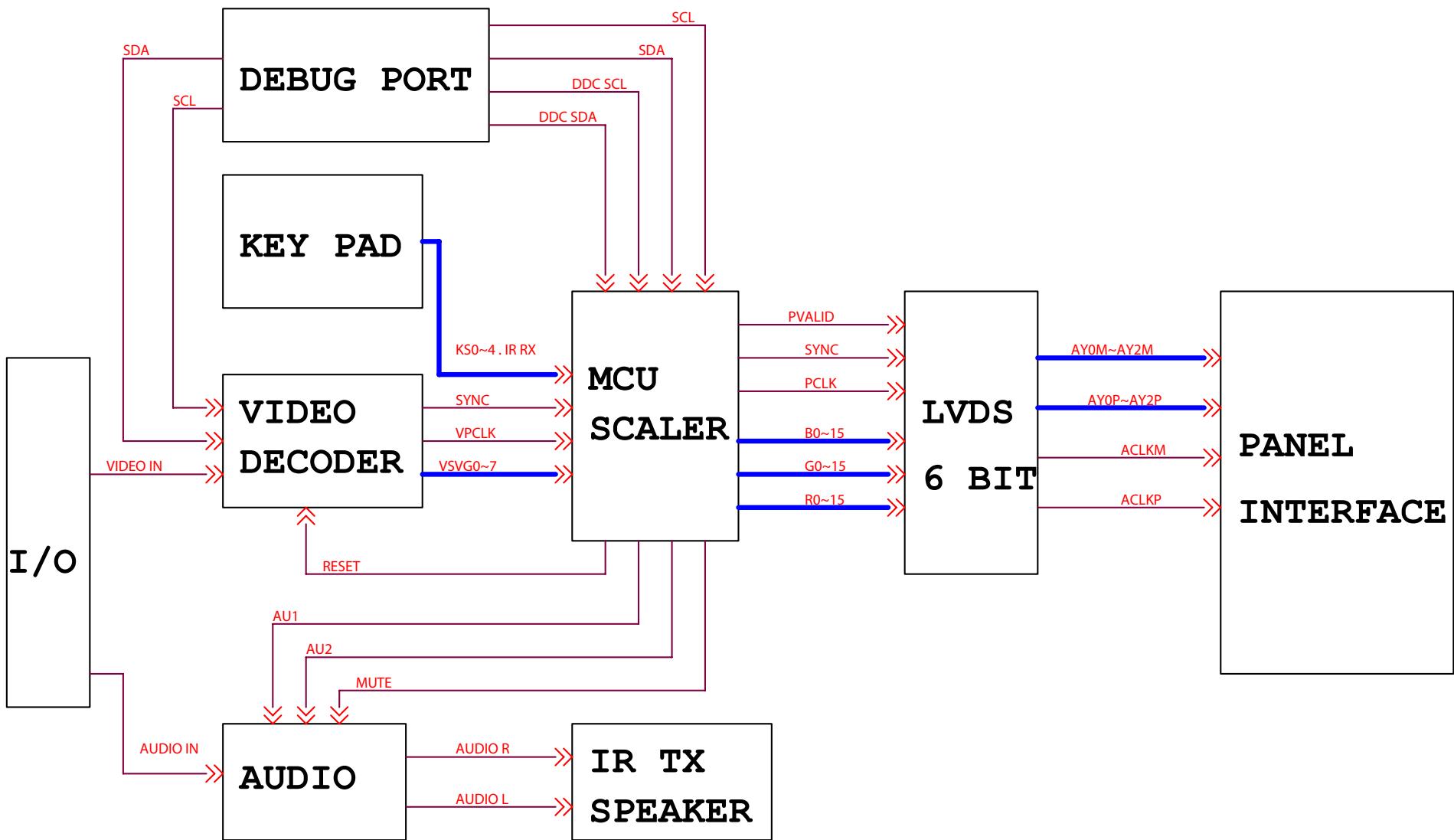
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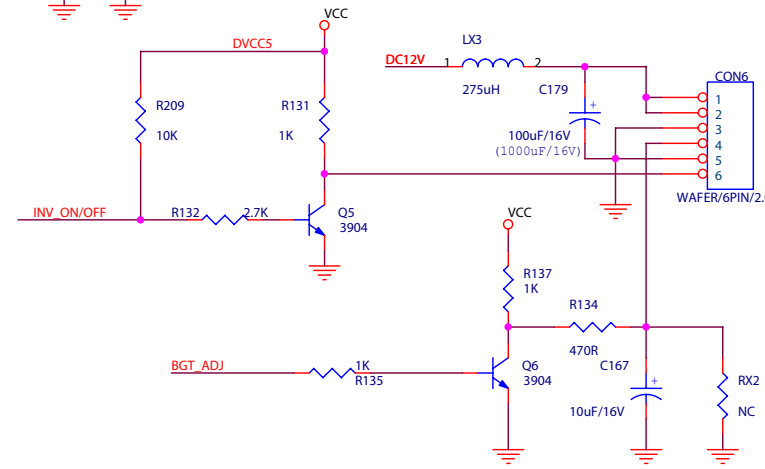
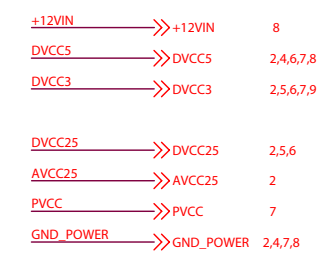
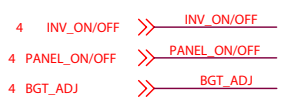
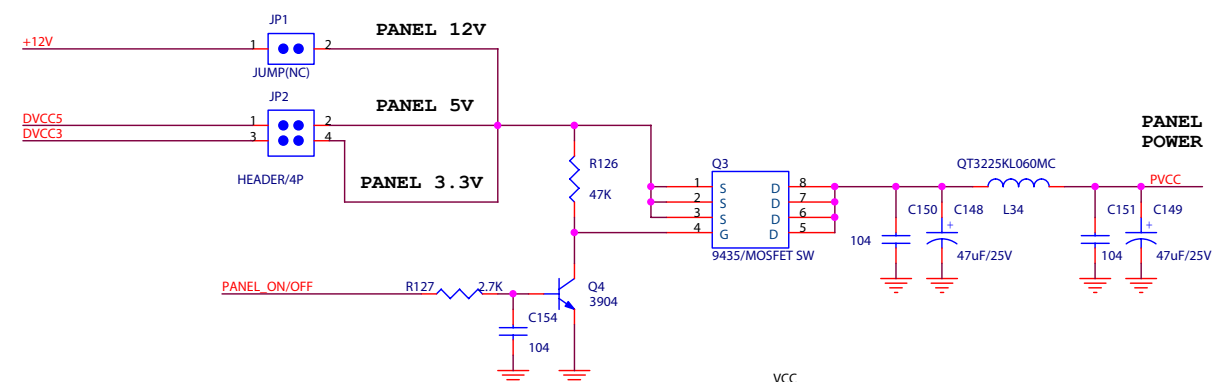
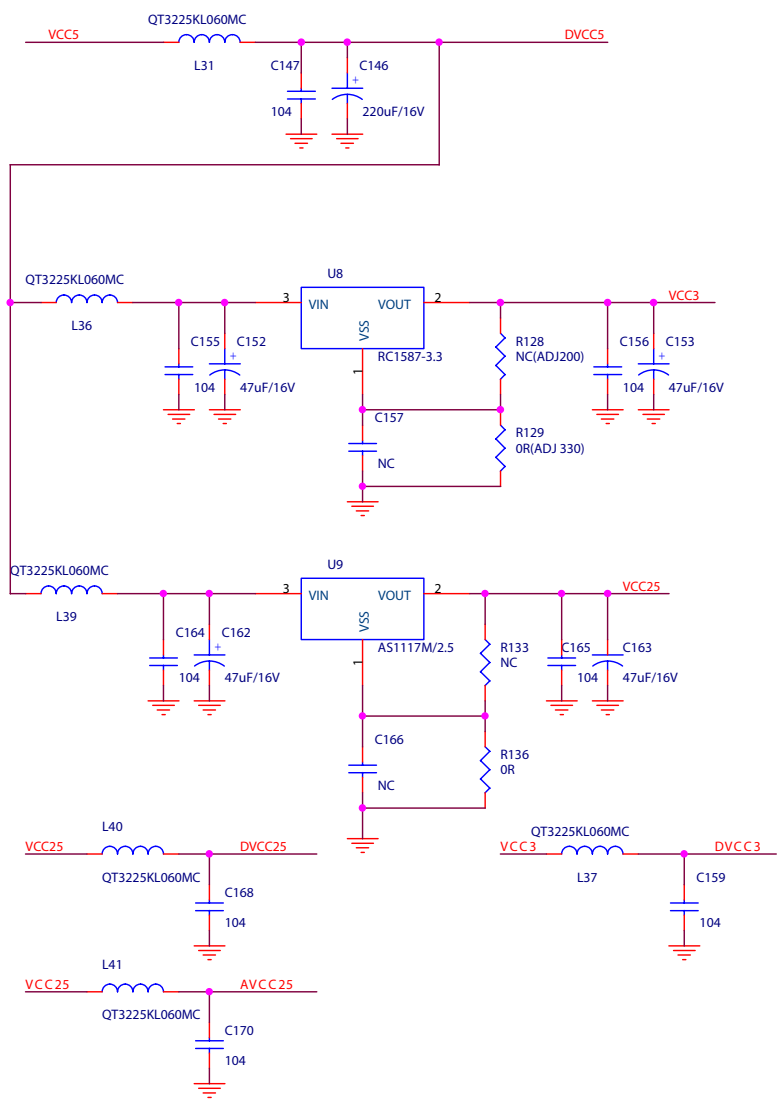
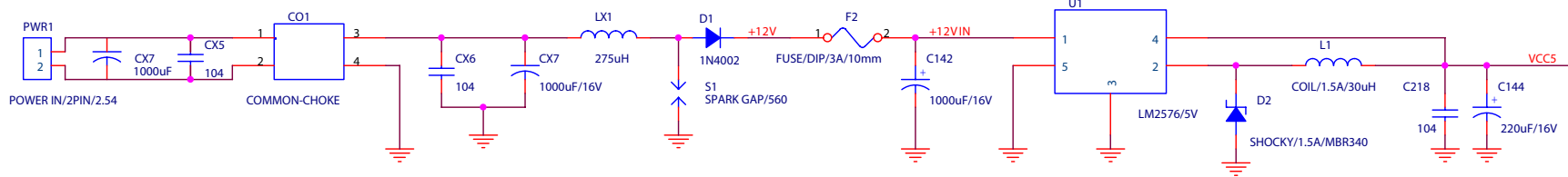
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SPECIFICATION

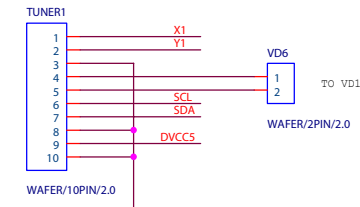
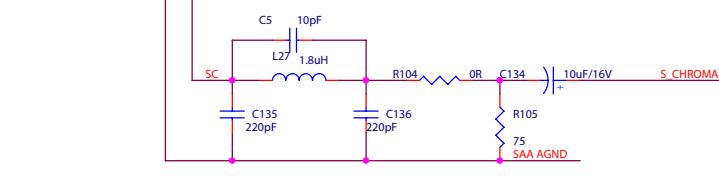
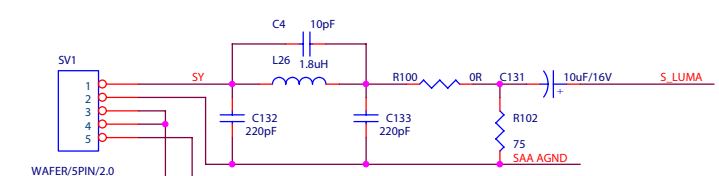
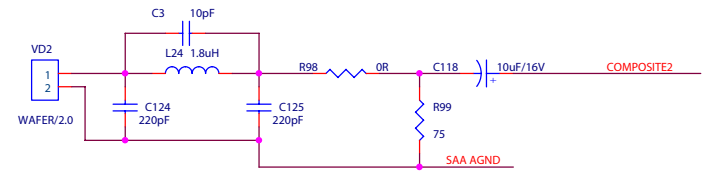
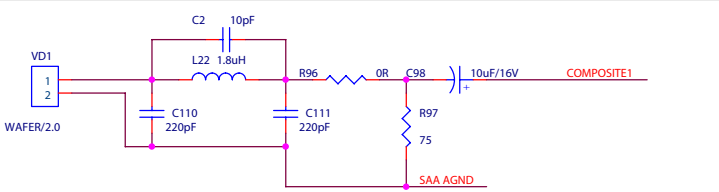
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Signal Input	Video : Composite sync. System : NTSC, PAL, SECAM Audio : 1.0Vp-p
Display System	Active Matrix High Resolution TFT-LCD Monitor
Environment	Operating Temperature : 0 C~35 C Storage Temperature : -20 C~ 60 C Humidity : 20% ~ 90%



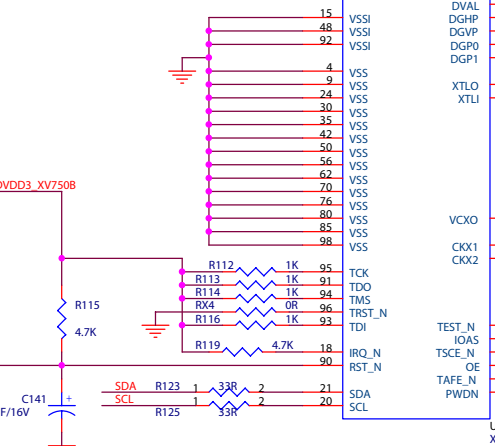
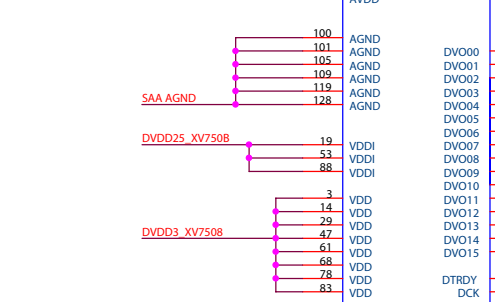
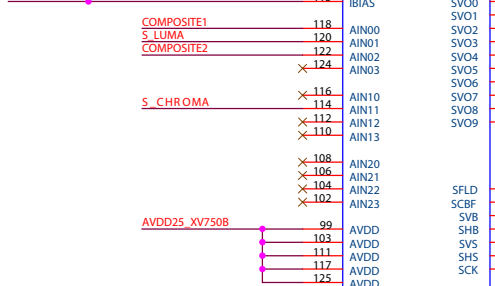
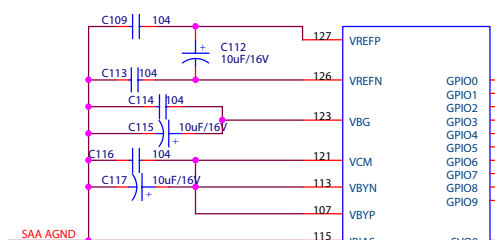
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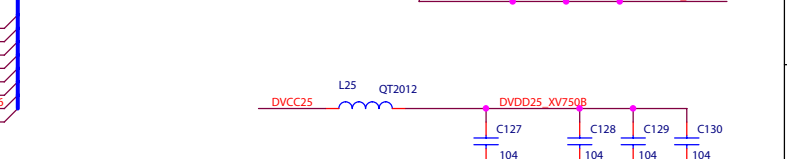
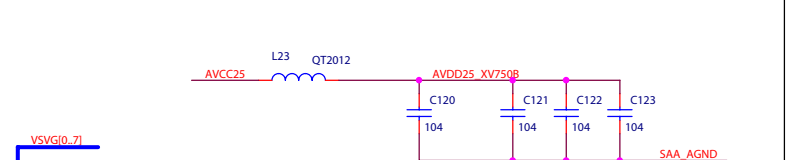
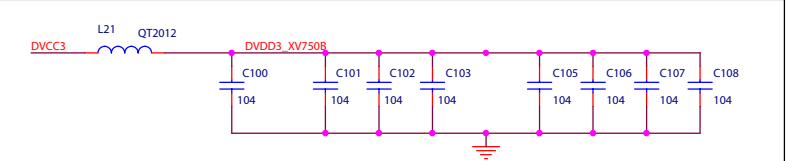
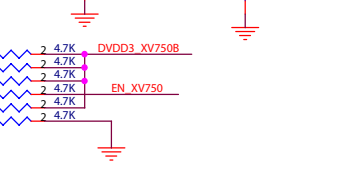
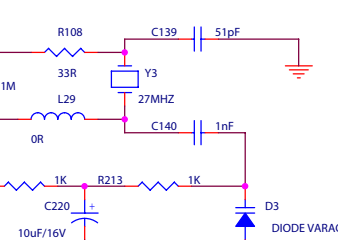
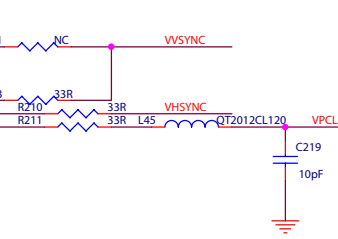
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- 1,4,6,7,8 DVCC5 >> DVCC5
- 1,5,6,7,9 DVCC3 >> DVCC3
- 1,5,6 DVCC25 >> DVCC25
- 1 AVCC25 >> AVCC25
- 4,6 SCL >> SCL
- 4,6 SDA >> SDA
- 4 EN_XV750 >> EN_XV750



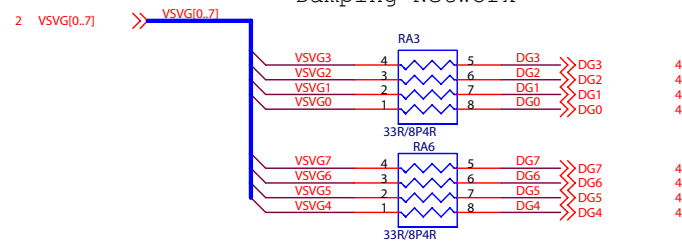
- GPIO0 5
- GPIO1 6
- GPIO2 7
- GPIO3 8
- GPIO4 10
- GPIO5 11
- GPIO6 12
- GPIO7 13
- GPIO8 16
- GPIO9 17
- SV00 22
- SV01 23
- SV02 25
- SV03 26
- SV04 27
- SV05 28
- SV06 31
- SV07 32
- SV08 33
- SV09 34
- SFLD 36
- SCFB 37
- SVB 38
- SHB 39
- SVS 40
- SHS 41
- SCK 49
- DVO00 43
- DVO01 44
- DVO02 45
- DVO03 46
- DVO04 51
- DVO05 52
- DVO06 54
- DVO07 55
- DVO08 57
- DVO09 58
- DVO10 59
- DVO11 60
- DVO12 63
- DVO13 64
- DVO14 65
- DVO15 66
- DTRDY 67
- DCK 69
- DVAL 71
- DGHP 72
- DGVP 73
- DGP0 74
- DGP1 75
- XTLO 81
- XTLI 82
- VCXO 84
- CKX1 79
- CKX2 77
- TEST_N 1
- IOAS 2
- TSCE_N 87
- OE 89
- TAFE_N 97
- PWDN 86
- U7 XV750B



- VSVG0_71 >> VSVG0_71 3
- VPCLK >> VPCLK 4
- VHSYNC >> VHSYNC 4
- VVSYNC >> VVSYNC 4
- X1 >> X1 8
- Y1 >> Y1 8
- GND_POWER >> GND_POWER 4,7,8

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VIDEO Interface Damping Network

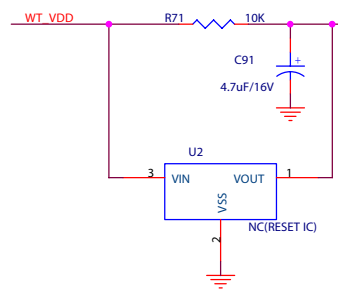


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DAMPING NETWORKS		
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1,2,6,7,8 DVCC5

DVCC5

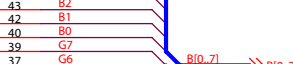
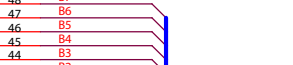
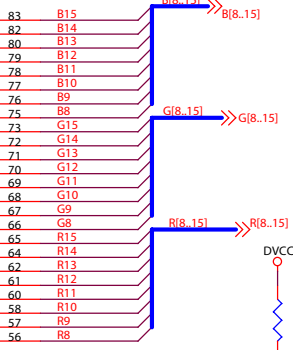
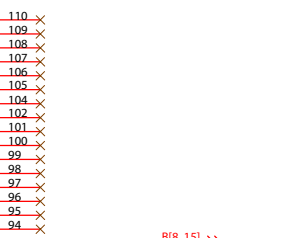
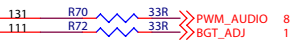
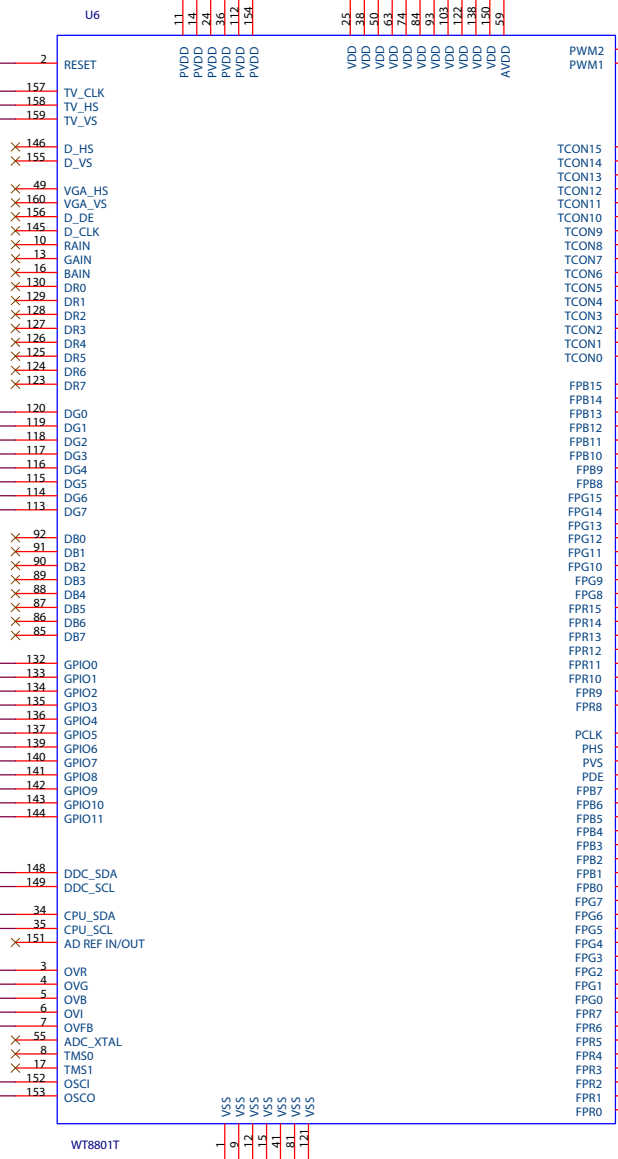
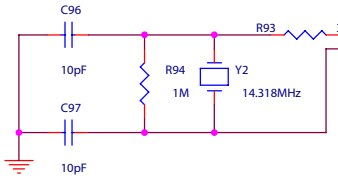
5 WT_AVDD >> WT_AVDD
 5 WT_VDD >> WT_VDD
 5 WT_PVDD >> WT_PVDD



3 DG0 >> DG0
 3 DG1 >> DG1
 3 DG2 >> DG2
 3 DG3 >> DG3
 3 DG4 >> DG4
 3 DG5 >> DG5
 3 DG6 >> DG6
 3 DG7 >> DG7

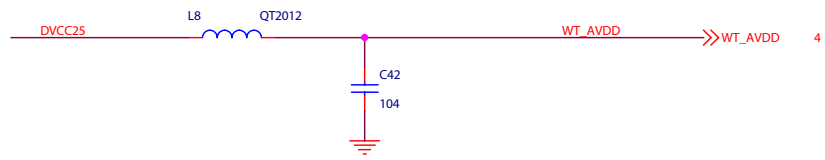
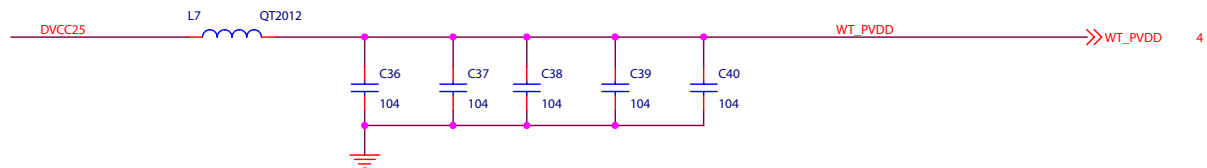
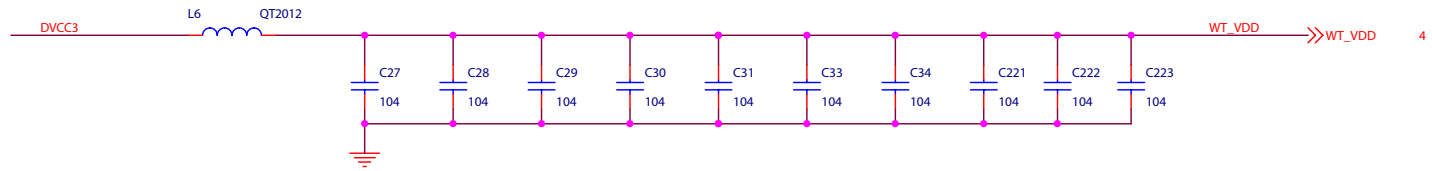
6 IR_INT >> IR_INT
 8 AU2 >> AU2
 6 LEDA >> LEDA
 6 LEDB >> LEDB
 1 PANEL_ON/OFF >> PANEL_ON/OFF
 7,9 EN_LVDS >> EN_LVDS
 1 INV_ON/OFF >> INV_ON/OFF
 2 EN_XV750 >> EN_XV750
 3 V_RESET >> V_RESET
 8 MUTE >> MUTE
 8 AU1 >> AU1
 6 KS5 >> KS5

6 DDC_SDA >> R84 33R 148 DDC_SDA
 6 DDC_SCL >> R85 33R 149 DDC_SCL
 2,6 SDA >> R86 33R 34 CPU_SDA
 2,6 SCL >> R87 33R 35 CPU_SCL
 6 KS0 >> R88 33R 3 OVR
 6 KS1 >> R89 33R 4 OVG
 6 KS2 >> R90 33R 5 OVGB
 6 KS3 >> R91 33R 6 OVI
 6 KS4 >> R92 33R 7 OVFB



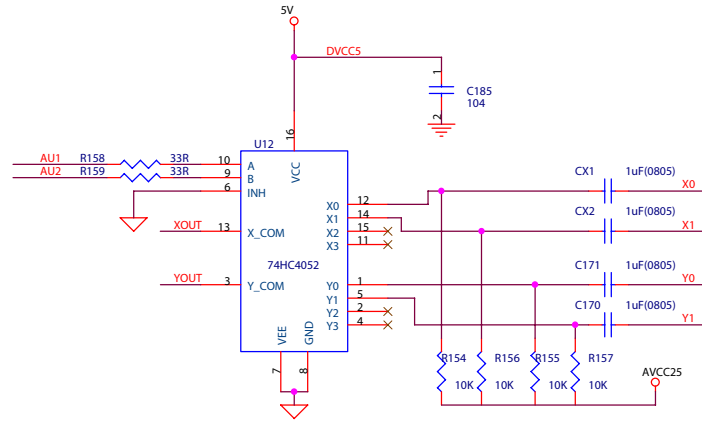
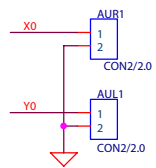
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1,2,6,7,9 DVCC3 >> DVCC3
 1,2,6 DVCC25 >> DVCC25



GND_POWER >> GND_POWER 2,4,7,8

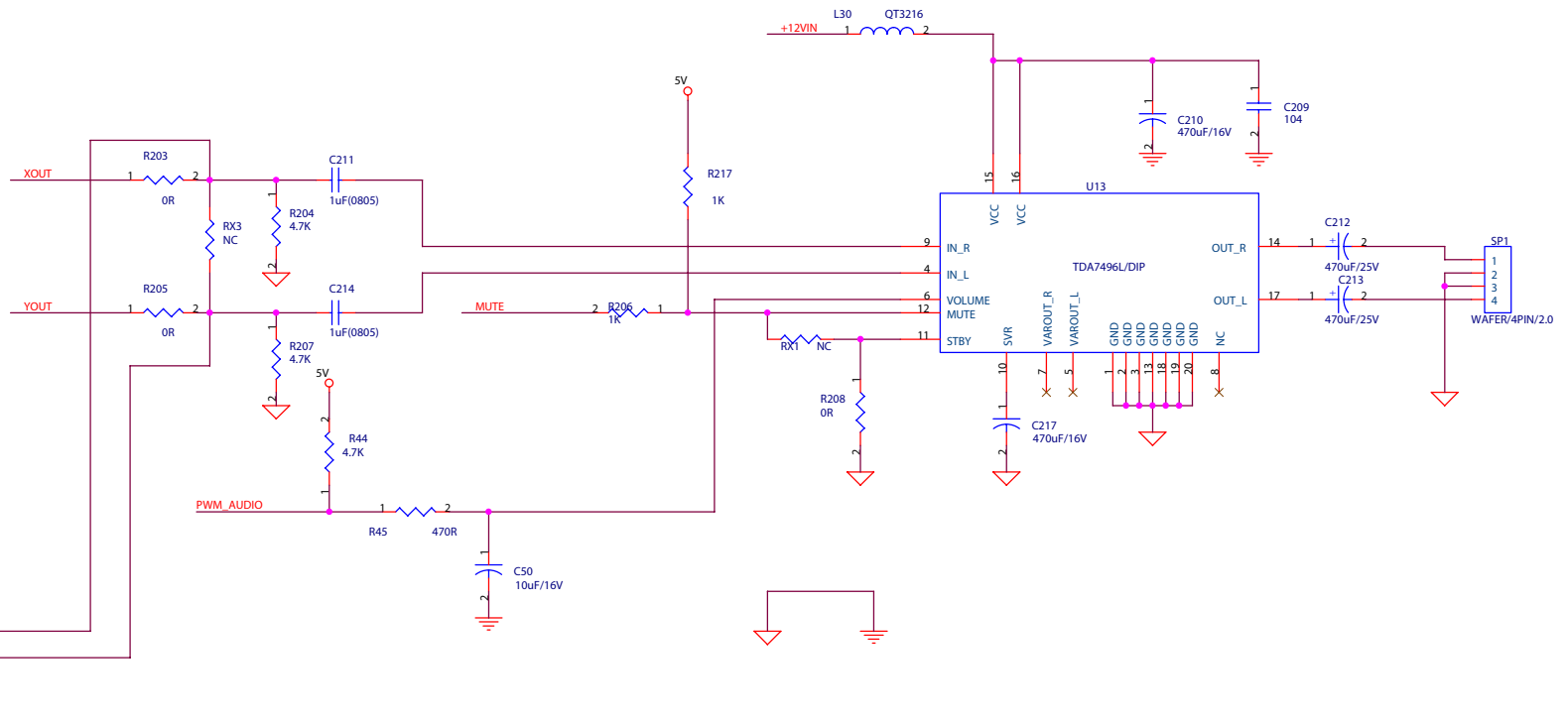
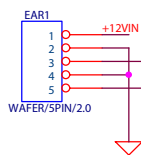
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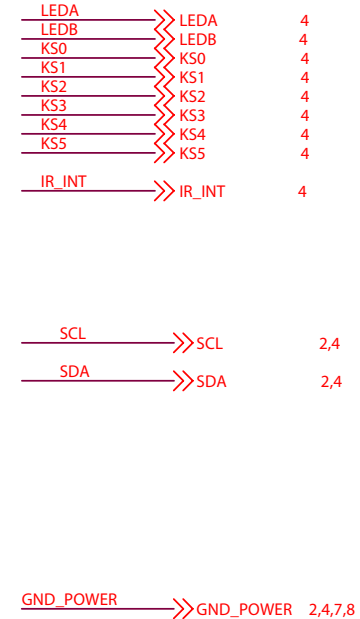
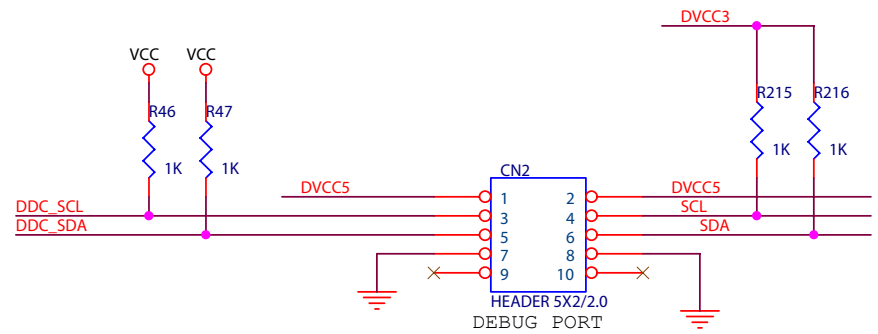
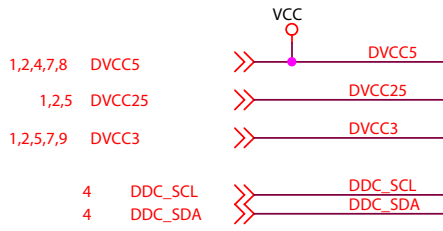
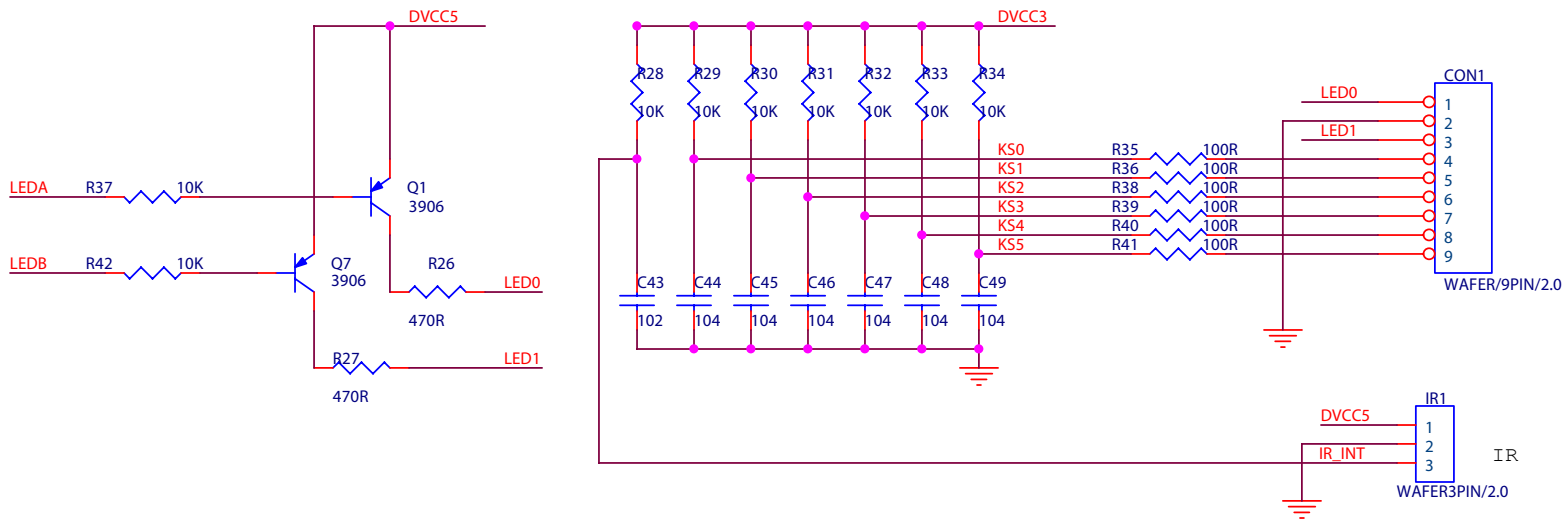


INH	AV_SEL_2	AV_SEL_1	ON CHANNEL
L	L	L	X0, Y0
L	L	H	X1, Y1
L	H	L	X2, Y2
L	H	H	X3, Y3
H	X	X	NONE

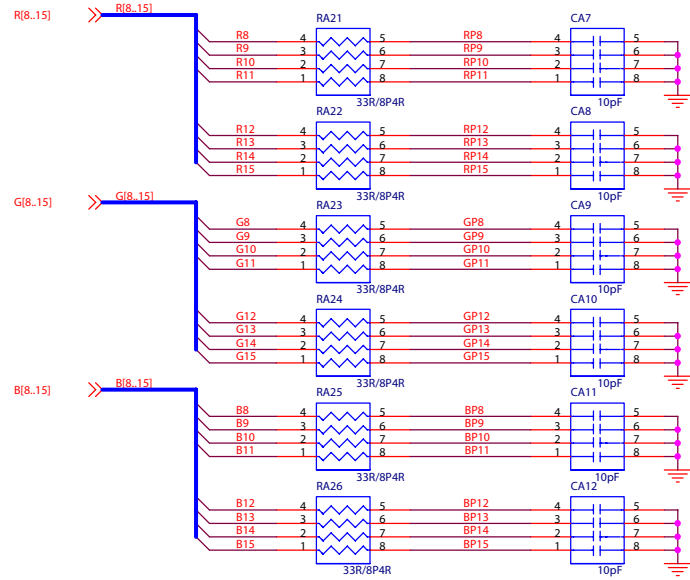
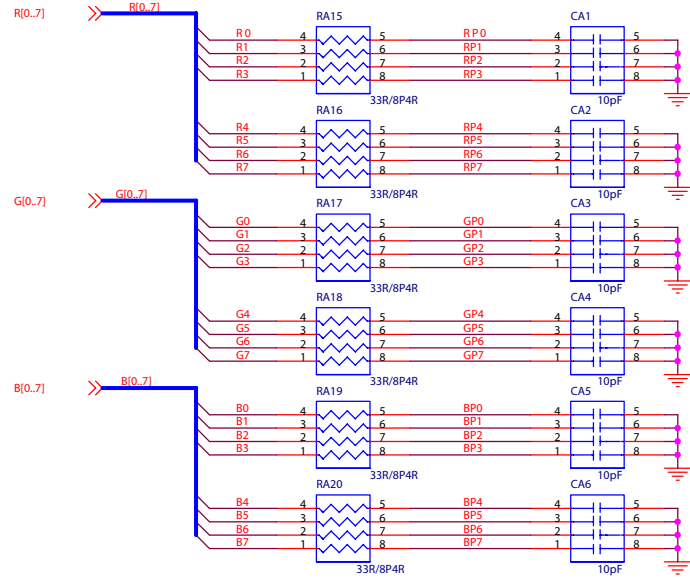
- 1 +12VIN >> +12VIN
- 1,2,4,6,7 DVCCS >> DVCCS
- 4 PWM_AUDIO >> PWM_AUDIO
- 4 MUTE >> MUTE
- 4 AU1 >> AU1
- 4 AU2 >> AU2
- 2 X1 >> X1
- 2 Y1 >> Y1

- 2,4,7 GND_POWER >> GND_POWER

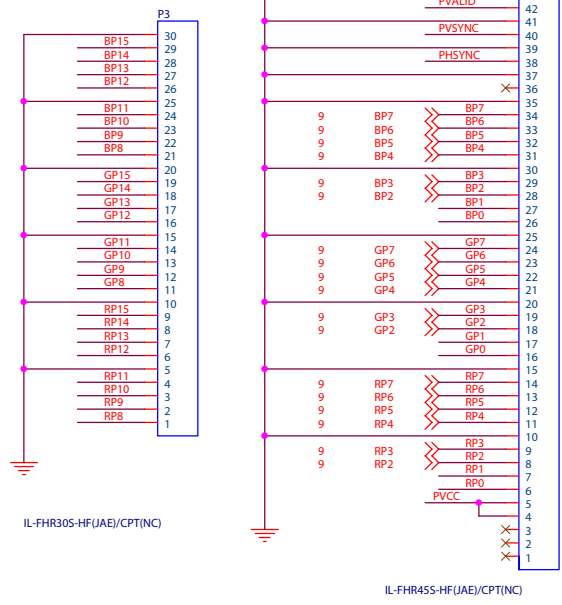




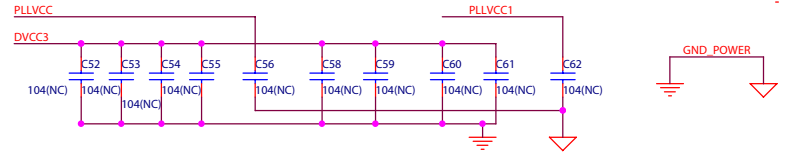
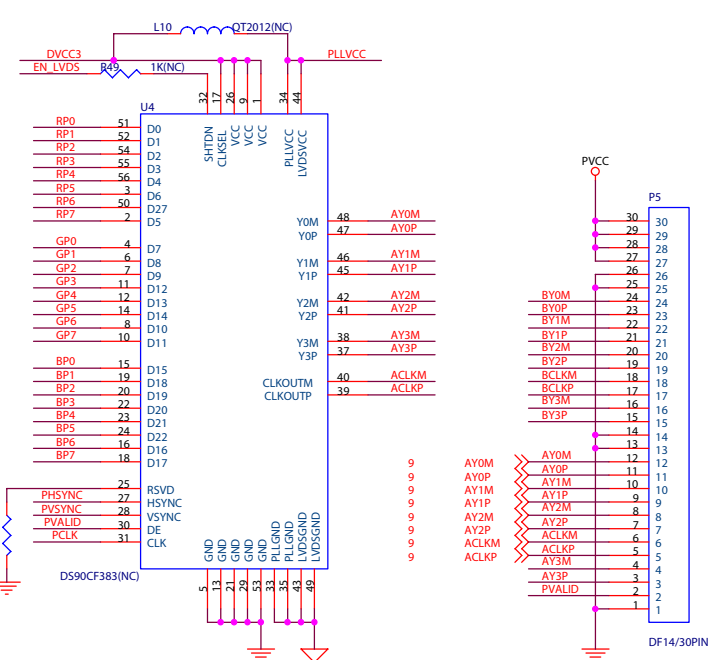
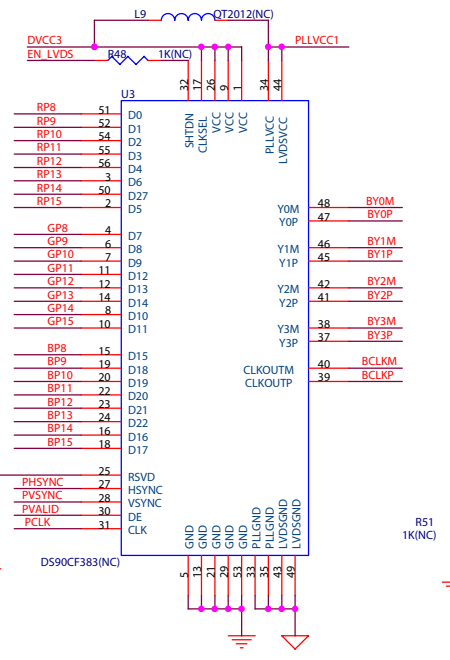
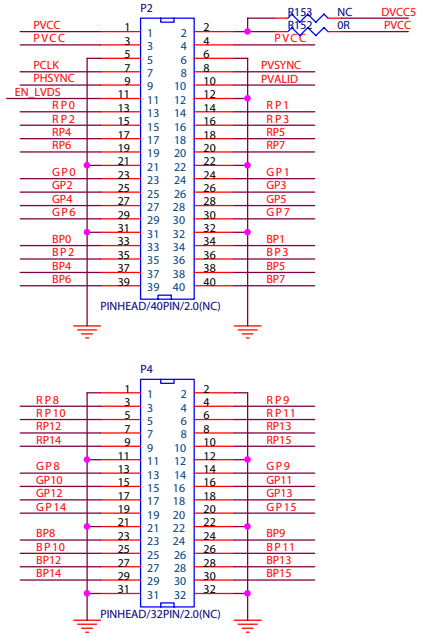
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Panel connector



General Panel connector



Title			PANEL INTERFACE		
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1,2,5,6,7 DVCC3

DVCC3

7 RP2
7 RP3
7 RP4
7 RP5
7 RP6
7 RP7

RP2
RP3
RP4
RP5
RP6
RP7

7 GP2
7 GP3
7 GP4
7 GP5
7 GP6
7 GP7

GP2
GP3
GP4
GP5
GP6
GP7

7 BP2
7 BP3
7 BP4
7 BP5
7 BP6
7 BP7

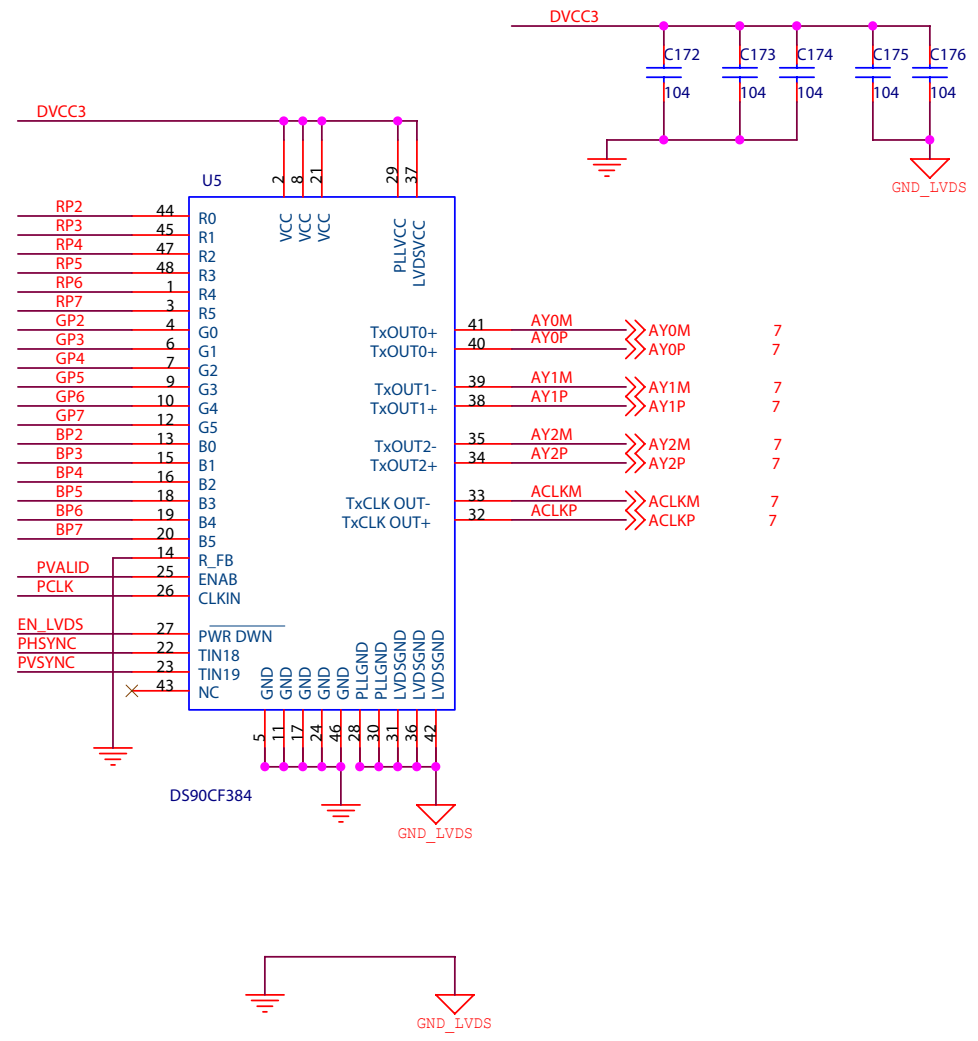
BP2
BP3
BP4
BP5
BP6
BP7

4,7 PVALID
4,7 PCLK
4,7 PHSYNC
4,7 PVSYNC

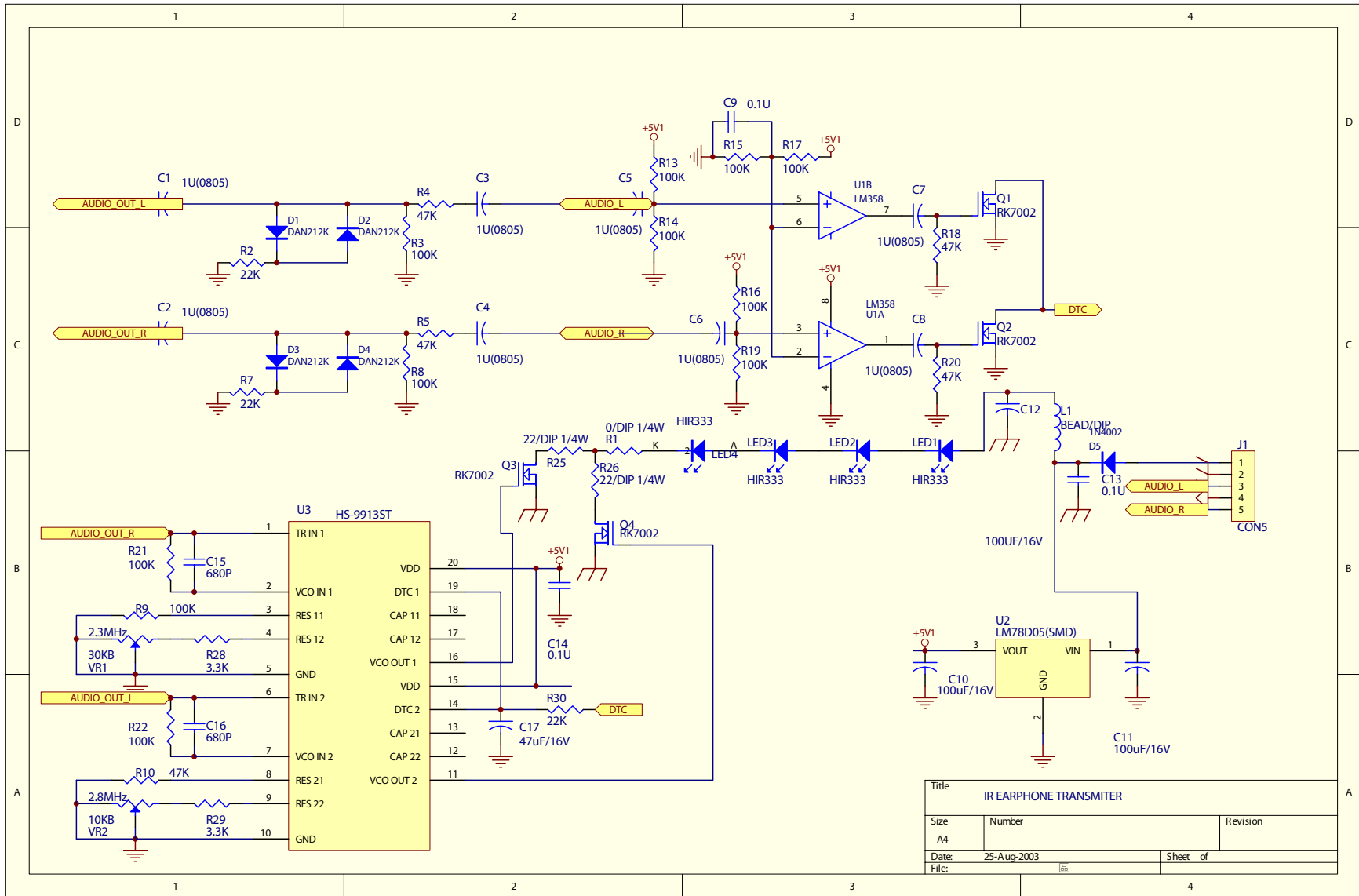
PVALID
PCLK
PHSYNC
PVSYNC

4,7 EN_LVDS

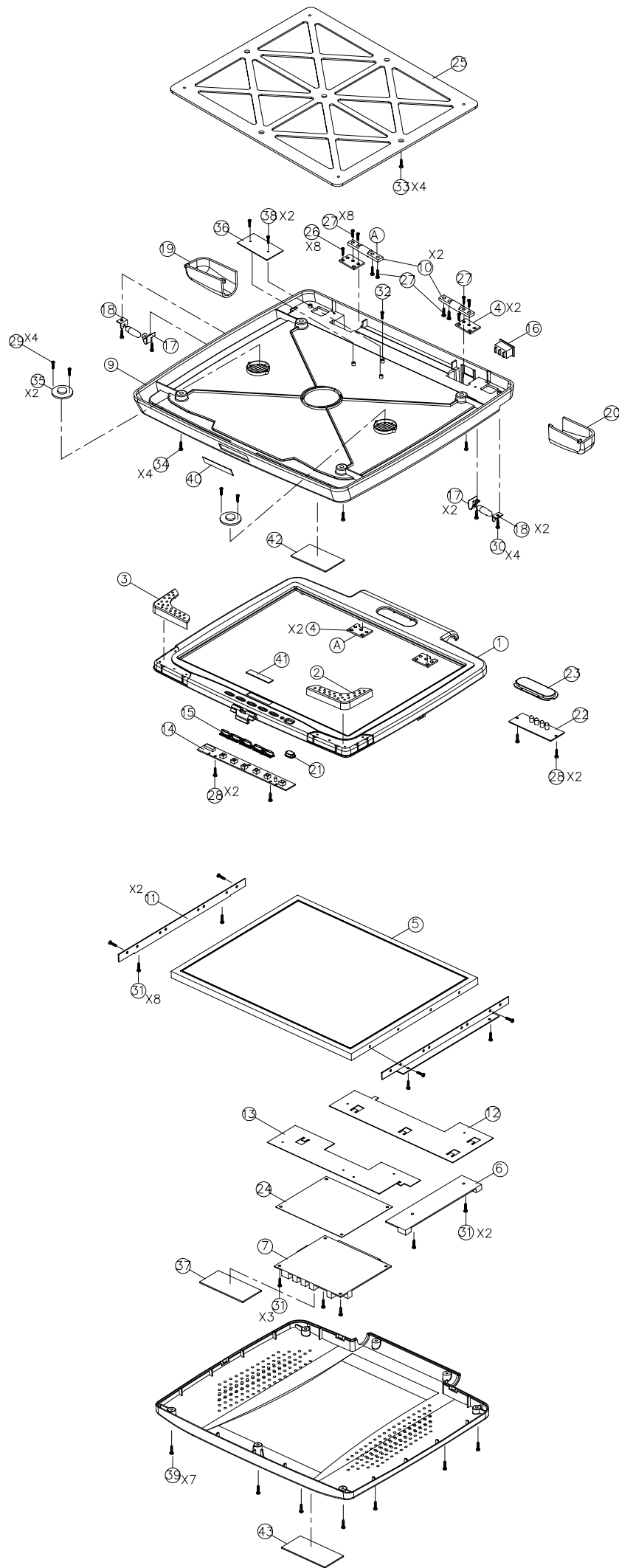
EN_LVDS



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LVDS 6 BIT		
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EXPLODED VIEW PARTS

NO.	PART NO.	DESCRIPTION	QTY
1.	100-01410-010	FRONT CABINET	1
2.	110-00170-010	CABINET RUBBER L	1
3.	110-00170-020	CABINET RUBBER R	1
4.	106-00104-080	HINGE BRACKET	1
5.	045-01410-010	LCD PANEL	1
6.	002-01410-010	INVERTER	1
7.	710-01410-010	MAIN BOARD	1
8.	100-01410-020	BACK CABINET	1
9.	102-01410-010	BOTTOM BASE	1
10.	105-00133-010	HINGE	2
11.	106-01410-010	PANEL BRACKET	2
12.	106-01410-020	MAIN BRACKET (UP)	1
13.	106-01410-030	MAIN BRACKET(DO)	1
14.	701-01410-010	KEY BOARD	1
15.	104-01410-010	KEY KNOB	1
16.	043-00104-010	POWER KNOB	1
17.	109-00104-020	LAMP METAL L	2
18.	109-00104-010	LAMP METAL R	2
19.	107-01500-030	LAMP WINDOW L	1
20.	107-01500-040	LAMP WINDOW R	1
21.	107-00104-010	IR WINDOW	1
22.	716-00104-030	IR BOARD	1
23.	107-01500-020	IR TX WINDOW	1
24.	110-00104-020	SHIELD PLATE	1
25.	105-00133-010	BOTTOM BRACKET	1
26.	115-40080-012	MACHINE SCREW RM 4#X8L BLK	8
27.	115-40120-011	MACHINE SCREW RM 4#X12L NI	8
28.	118-26060-011	TAPPING SCREW RT 2.6#X6L NI	4
29.	117-20040-112	TAPPING SCREW 2#X4L BLK	4
30.	117-30060-011	TAPPING SCREW RT 3#X6L NI	4
31.	115-30050-061	MACHINE SCREW BM 3#X5L NI	13
32.	118-26080-111	TAPPING SCREW RM 2.6#X8L NI	1
33.	117-60200-012	MACHINE SCREW RM 6#X20L BLK	4
34.	115-40100-012	MACHINE SCREW RM 4#X10L BLK	4
35.	046-01770-010	SPEAKER	2
36.	706-01500-010	CABLE BOARD	1
37.	706-01410-020	FM CABLE BOARD	1
38.	118-26050-011	TAPPING SCREW RM 2.6#X5L NI	2
39.	115-30080-032	MACHINE SCREW RM 3#X8L BLK	7
40.		NAME PLATE 40X8MM	1
41.		NAME PLATE 50X10MM	1
42.	125-00550-010	LABEL 39X24MM	1
43.		NAME PLATE 49.5X29.5MM	1